

Daily GLOWBUGS

Digest: V1 #33

via AB4EL Web Digests @ SunSITE

Purpose: building and operating vacuum tube-based QRP rigs

[AB4EL Ham Radio Homepage @ SunSITE](#)

%%%% GlowBugs %%%%% GlowBugs %%%%% GlowBugs %%%%% GlowBugs %%%%%

Subject: glowbugs V1 #33

glowbugs

Friday, May 16 1997

Volume 01 : Number 033

Date: Thu, 15 May 1997 17:30:21 -0700 (PDT)

From: Ken Gordon <keng@uidaho.edu>

Subject: 6CA7...

Does anyone have specs on this? This is NOT a 6AC7, but a 6CA7. It looks like a pentode. The plate looks like it could handle about 30 watts.

None of the ARRL Handbooks I have list it.

Kenneth G. Gordon W7EKB

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Moscow, Idaho 83843

(208)-882-8745

Great Highland Pipes, Amateur Radio, Electronic Consulting, Home-Schooling
Traditional Roman Catholic

//or//

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My PGP Public Key Upon Request.

Date: Thu, 15 May 1997 17:32:10 -0700 (PDT)

From: Ken Gordon <keng@uidaho.edu>

Subject: BA/GB "net"...

Heard nothing on either 7050 or 3579R545 last night. Very noisy on 80: weird path on 40. Will try again tonight. GRC-109 on 40. Don't yet have a rock for 80.

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My PGP Public Key Upon Request.

Date: Thu, 15 May 1997 17:34:03 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
Subject: Tubes...

I have some 2X2's and 2X2A's, a 5R4GY and a 5U4 will give/trade to anyone who needs them. I don't think my R-390 needs them.

| | | |
|--|--------|--------------------------------------|
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My PGP Public Key Upon Request.

Date: Thu, 15 May 1997 17:37:58 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
Subject: Old receiver...

This week was very busy with all time taken up with a music workshop for our children. I now have the photos I mentioned last week and will send them out this week to all who asked for them.

BTW, due to the kindness of one of the "denizens" of the BA list, I have learned that the receiver is an AFX-1399 Navy Type "3 in 1" Coupler, listed in Gernsback's Electro Importing Co catalog of 1918 on pages 50 and 51, with a full description.

| | | |
|--|--------|--------------------------------------|
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My PGP Public Key Upon Request.

Date: Thu, 15 May 1997 17:39:39 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
Subject: Collings' B-17/B-24 comm. gear...

I will FAX the appropriate pages from the B-17 manual to those who asked for them sometime this evening or early tomorrow morning.

| | | |
|-------------------------|--|--------------------------------------|
| Kenneth G. Gordon W7EKB | | College of Mines and Earth Resources |
|-------------------------|--|--------------------------------------|

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My PGP Public Key Upon Request.

Date: Thu, 15 May 1997 17:44:38 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
Subject: Transformers...

I have recently aquired several quite small power transformers which look quite suitable for powering ARC-5 receivers. Will sell or trade to interested parties. Details to follow.

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My PGP Public Key Upon Request.

Date: Thu, 15 May 1997 17:45:27 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
Subject: Manual...

Does anyone have or know where I can get an operating manual for a Triplet model 3444 tube checker?

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My PGP Public Key Upon Request.

Date: Thu, 15 May 1997 17:57:04 -0800
From: "Kenneth G. Gordon" <keng@uidaho.edu>
Subject: Inductor...

I have recently aquired an interesting potted inductor. It is about 2.5 inches deep X 2.75 inches wide X 3 inches high. On the front it says: RD-9837-1, HIGH PASS FILTER, MULTIPLE AUDIO, INDUCTOR, FAMILY # 19

Then a diagram showing three inductors with one end of each tied together. The first and last ones are labled 2.8 H, and the center one is labled 1.4 H.

Under the diagram is the inscription:

D.C. Current = 0 ma.
Jefferson Electric Co.
466-001-348 MIL T-27
Grade 1 Class A

On one side it says:
N16-R-29870-1901

On the bottom, there are 3 ceramic feedthrough solder connectors and one ground.

Does anyone need this thing? If not, I intend to make an audio filter out of it.

Ken W7EKB

Date: Thu, 15 May 1997 11:40:00 -0600
From: "Deane D McIntyre" <dmcintyr@imap1.acs.ucalgary.ca>
Subject: Re: AN/GRC-109 -- one gotcha

In message <199705151502.KAA24937@dfw-ix3.ix.netcom.com> michael silva writes:

>
> Brian wrote:
> >
> (re scarcity/expense of 1L6 tubes...)
>
> >It's easier than that.
> >
> >What they tell me is that for the 1L6 you just use a 1R5 and
> >cut off PIN 5 (I believe).
>
> >The purists who own Zenith Transoceanics don't want to do that of
> >course, but it they say that it does work!
> >
>
> Somebody on rec.antiques.radio+phono made some measurements and I seem
> to remember he said you lose 20db with this trick (the grids end up
> beign used "backwards" in the 1R5).

This is basically correct. However, loss is frequency dependent.
I tried this on my Zenith A600 Transoceanic (chassis 6A40).

On the BC band, with a 1R5 everything was fine. On the lower SW bands (2-4 Mc and 4-9 Mc) it worked reasonably well however the dial calibration shifted and gain was down somewhat (apparently a alignment will correct this however). It was worse on the 31 and 25 meter bands, and on the 19 and 16 meters bands reception was nil....the 1R5 did not seem to be oscillating.

Incidently in a TO it is not necessary to cut the 1R5 pin off.

So a 1R5 will work OK if you are only interested in the lower frequencies,
but is not a real solution. For more information than you ever wanted
to know about the 1L6 problem check out
<http://www.netmind.com/~padgett/index.html>
for other possible solutions, some involving a 1AC6 tube and others
involving verboten technology.....

73, Deane D McIntyre VE6BPO
dmcintyr@acs.ucalgary.ca

Date: Wed, 14 May 1997 20:36:03 -0700
From: Ray LaRue <raylarue@gte.net>
Subject: Re: 6CA7...

Ken Gordon wrote:

>
> Does anyone have specs on this? This is NOT a 6AC7, but a 6CA7. It looks
> like a pentode. The plate looks like it could handle about 30 watts.
>
> None of the ARRL Handbooks I have list it.
>
> Kenneth G. Gordon W7EKB College of Mines and Earth Resources
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>
> My PGP Public Key Upon Request.Ken,
It is listed in the Sylvania "Technical Manual", printed in 1965. It is
an 8 pin, beam power audio amplifier, identical to the EL34. Max plate E
in triode conection is 500 V, in Pentode, 800. Plate dissipation is
rated at 25 watts. What else do you need to know?
73,
Ray, W4BYG

Date: Thu, 15 May 1997 20:43:13 -0500 (CDT)
From: "Carol N. Wright" <cnw@HiWAAY.net>
Subject: Re: 6CA7...

On Thu, 15 May 1997, Ken Gordon wrote:

> Does anyone have specs on this? This is NOT a 6AC7, but a 6CA7. It looks
> like a pentode. The plate looks like it could handle about 30 watts.
>
Hey Ken and Gang,
I have the RCA receiving tube manual from 1970. Here are the pinouts, I'm
new to this, let me know what else you need from it.

It's listed as a 6CA7/EL34 Power Pentode
Pin 1 G3

Heater voltage, of course 6.3 volts
Heater current 1.5A
Peak Heater-Cathode Voltage + or - I think 200 max

Says can be used as a Class A amplifier or a Push-Pull Class AB, amplifier.

| | |
|------------------------------|--------------------------|
| Class A Amplifier | output watts = 11 watts |
| Push-Pull Class AB Amplifier | output watts = 40 watts. |

What else could be helpful? Matt, AE4JM

Date: Thu, 15 May 1997 19:33:32 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
Subject: Re: 6CA7...

```
> It is listed in the Sylvania "Technical Manual", printed in 1965. It is
> an 8 pin, beam power audio amplifier, identical to the EL34. Max plate E
> in triode conection is 500 V, in Pentode, 800. Plate dissipation is
> rated at 25 watts. What else do you need to know?
```

Base diagram???? :-)

Date: Fri, 16 May 1997 10:28:15 -0400 (EDT)
From: EWoodman@aol.com
Subject: Ferret Radio

I have a friend who recently purchased a fully restored Ferret. This is a British military armored patrol vehicle built back in the 50's. The radio transceiver installed in it is designated as a C-42. This covers approx. 30 - 60 Mc and is FM (15Kc deviation). We were thinking about installing a different radio. I don't imagine a wide-band FM signal would be much appreciated on 6 meters. We have found that a Wireless Set No. 19 or 22 would also be historically correct as these were used in the early vehicles. Can anyone give me a description of these sets and whether they ever show up for sale?

(He drives and I get to sit in the turret and play with the radio gear so it would be nice to have something usable as well as historically correct! That's what I call a REAL boatanchor!)

Thanks and 73,

Eric KA1YRV

Date: Fri, 16 May 1997 08:56:17 -0700 (MST)
From: Jeff Duntemann <jeffd@coriolis.com>
Subject: Re: Ferret Radio

At 10:28 AM 5/16/97 -0400, EWoodman@aol.com wrote:

>I have a friend who recently purchased a fully restored Ferret. This is a
>British military armored patrol vehicle built back in the 50's. The radio
>transciever installed in it is designated as a C-42. This covers approx. 30 -
>60 Mc and is FM (15Kc deviation). We were thinking about installing a
>different radio. I don't imagine a wide-band FM signal would be much
>appreciated on 6 meters.

Hey, there's nothing wrong with wideband FM above 52 Mhz, unless I
misrecall. And 6 is so dead in central Arizona I daresay all five of us
who work the band here would jump in and say, Cool audio, man!

So whatever you replace it with, don't scrap that C42 radio!

>(He drives and I get to sit in the turret and play with the radio gear so it
>would be nice to have something usable as well as historically correct!
>That's what I call a REAL boatanchor!)

And I'll bet the local lowriders don't dis you!

- --73--

- --Jeff Duntemann KG7JF
Scottsdale, Arizona

Date: Fri, 16 May 1997 09:21:13 -0700 (MST)
From: Jeff Duntemann <jeffd@coriolis.com>
Subject: AN/GRC-109 in Electric Radio

Hi gang--

The May issue of Electric Radio (which just arrived yesterday, as I don't
get it First Class) has an interesting historical article (actually a
letter) about the GRC-109 set and its uses in Viet Nam. The article
references an earlier article I had forgotten about, in the October 1993
issue. The earlier article has quite a bit of tech in it, has photos of
the uncased units, and descriptions of the operator's experience in working
it on our bands.

The author doesn't much like the receiver for its broad passband and lack
of AVC, and has much more to say about the transmitter.

By the way, Padgett Peterson's Web article (mentioned here earlier by Ken
Gordon, I think) about the 1L6 is absolutely MUST reading for anyone either
owning or contemplating a GRC-109. I'll repeat the URL:

<http://www.netmind.com/~padgett/1l6.htm>

He reprints a circuit for an FET-based substitute for the 1L6, and speaks in depth of pentagrid converters, their history, and why they should NOT be bandswitched. He mentions that the 1U6 is a possible and workable substitute for the 1L6, even though it's probably just as scarce. I learned more about tubes during the ten minutes I took reading that essay than on any single reading in several years. Don't miss it, even though he's talking in the context of the Zenith Transoceanic.

Cripes, what did we do before the Web?

- --73--

- --Jeff Duntemann KG7JF
Scottsdale, Arizona

Date: Fri, 16 May 1997 10:43:59 -0600
From: **dfrancis@iex.net (Dexter Francis)**
Subject: [none]

The chart below should help in evaluating the usefulness of this "conversion":

| Pin | 1L6 Function | 1R5 Function |
|-----|-------------------|-------------------|
| 1 | Heater | Heater - & Grid 5 |
| 2 | Plate | Plate |
| 3 | Grid 2 | Grid 2 and Grid 4 |
| 4 | Grid 1 | Grid 1 |
| 5 | Grid 3 and Grid 5 | Heater and Grid 5 |
| 6 | Grid 4 | Grid 3 |
| 7 | Heater | Heater + |

Note that there are some internal connections that could mess things up big time in certain circuits.
Just cutting off pin 5 would kill the 1R5, as it is one of the heater terminals. In any case, cutting off a pin is a bad idea, as the mechanical shock could easily damage the metal to glass seal of the pin.

- -df

* CWest Tube Sales - P.O.B. 22443 SLC, UT 84122 *
* http://www.usa.net/~dfrancis/CWest_Tube_Sales.html *

Date: Fri, 16 May 1997 14:25:24 -0400 (EDT)
From: **rdkeys@csemail.cropsci.ncsu.edu**
Subject: **Glowbugs Archives - let me know if there are problems.**

OK, folks, let me know if anyone is having problems with files from the Glowbugs Archives. I may be expecting too much for granted when I put things up there in either dos .zip (pkzip) format or the world standard .gz (or .xxz on dos) gunzip file compression modes. I generally use the gunzip mode because it has become the world standard for the

internet, even over the old standard unix compress mode. If folks are having problems, let me know.

The gunzipper for dos is there (gzip.exe) and is invoked as:

```
gzip -d filename.xxz
```

to make filename.xx. This is typical of the dos naming restrictions on file name and file extension lengths. In this case it is where the xxz is something like psz for a dos postscript filename.ps which was compressed as filename.psz. On unix, it would be filename.ps.gz, and is ungnuzipped as:

```
gzip -d filename.fileextension.gz
```

to make filename.fileextension. If you are running a unix box without gzip, you really need to go visit prep.ai.mit.edu in the pub/gnu tree.

IFF a file is made on dos and has only a 3 letter extension terminating in a z, then it is gnuzipped and on unix must be renamed from, for example:

```
filename.psz          to          filename.ps.gz
```

before ungnuzipping on a unix box. The short 3-letter xxz extensions should work fine on dos and windoz (windoz might barf but it should work).

Individual files are usually gzipped. Collections of files are pkzipped on dos as a filename.zip archive, and need to be unpkzipped as:

```
pkunzip filename.zip          to unarchive the collection of files.
```

If you don't have pkunzip, then pick it up from the oak.oakland.edu msdos archives, or elsewhere. There is an unzip on dos and unix that is a functional equivalent, that can be used.

The Glowbugs Archives are at an anonymous ftp site (not a true web site):

```
piobaire.mines.uidaho.edu
```

in the /pub/Glowbugs directory tree.

If your internet software can't handle standard internet ftp, then it might think you need a standard webbish URL or uniform resource locator pointer such as:

```
ftp://piobaire.mines.uidaho.edu/pub/Glowbugs/
```

I dunno how much more clear than mud I can get than the above.

I will take the blame for any unclarities in the archvies, and put some of the blame on certain non-standard softwares that think they own the world (but are not the one true unix).

If there are still problems, let me know, and we will drop back to Model ASR-33's and paper tape.....(:+\....., like when I first got on the 'net back in '82. (and I still have a few rolled up tapes

on that sillipaperstuffthatgetsallovertheroomandthefloor).....

Enuf gumbeating for the day, from the old man.

Mebbee we can all meet on 3579 or 7050 at the appointed QTR and relax a little. Pardon my tirade, but it has not been a good friday, today.

Bob/NA4G

Date: Fri, 16 May 1997 15:10:59 -0400 (EDT)
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: YEAH it is Weekend BA/GB Funzies Time!!!!

Well, me feels a tad like a worn out old shoe, after one of those upsidedown weeks, around here. My writing box crashed, and I lost all the originals of the Glowbug Archives (man am I glad we found the on-line site and I got that stuff put up there, else floppy city). My printing box had a full filesystem and yickiewinos was unhappy. My unix boxes all are hitting 90% filesystems full. And, the power around here is going down on Sunday morning. Yeccccchhhhhh! Oh, well, so much for ivorytoweritis. I feel a reality check coming on, yeah, tho I walk in the valley of the non-glowing devices, I feel a true glow is needing to occur....., so.....

--- a'cut-cut-snippety-snip-snip here ---

This faire weekend, let us all walk in the ether valley amidst QRM and QRN, and nurture that warm gentle glow, emanating from the soft fires of yon glowwebottles, with fine and goodly fist, and all manner of spitzensparken emitted, an' battens we down our leadins, a'grapples we up our tin cans atop our noggins, a'stokes we up our glowenbottlen, an' a'readys we up our keys at the fore..... 'cuz, me feels a fine weekend's watch aboard the ol' BA/GB ether, it couldst be.....

- -----
General BA/GB Meeting Times:

- -----
QRG 7050/3579R545KHZ

QTR HR+0000Z/7050KHZ OR 0000Z-0600Z/3579R545KHZ

(That means any hour on the hour on 7050 KHZ and any time from 0000Z-0600Z for 3579 KHZ for the 80M crowd.)

CALL - CQ BA CQ BA DE <yourcall> <yourcall> K

- -----
Roundtable BA/GB Meeting Times:

- -----

QRG 7050KHZ QTR 0200Z (Transcons for the 40M freaks)

QRG 3579R545KHZ QTR 0400Z (LateNite for the 80M freaks)

CALL - (Whoever is there first run the roundtable with the standard call.)

- -----
CWist QRQ Meeting Time:
- -----

QRG 7050KHZ QTR 0300Z (QRQ for the cw/ba/gb/whatever crewe amongst us
wat likes ta gits da lead out!)

So, let us show those silisidebanders and rittyrattybingbang types that
our Glowebugges, Boatanchors, and the like can take their QRM and keep
right on tickin'. Rallye ho with the Hartleys! Muster up the GRC-109's!
Voyage forthe withe the Vikings! Juggernaut down the QRM with the SRT-14's!
Humble the sillisidebanders with the DX-20/25/40/100 Heathekitte dragons.
Heterodyne out the rittyrattybingbang with the Regenerators!
(Did I miss anyone?)

Gee, my day is going better, already....., how 'bout yours.....

73/ZUT DE NA4G/Bob UP

p.s. Someone bounce this to the BA lists if they want to.....

Date: Fri, 16 May 1997 12:20:34 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
Subject: Re: Glowbugs Archives - let me know if there are problems.

You can also reach the piobaire ftp site via the following URL:

<http://www.mines.uidaho.edu/ftp/pub/>

Bob:

Piobaire is also the web server for the College of Mines, in addition to
being the anonymous FTP and e-mail server. It was also, for a long time,
the primary DNS for the College and a backup DNS server for the whole
University. All this on a 486DX4-100 with 32 megs of RAM, 4 ea 1 gig + HD
(Quantum), running FreeBSD.

PKZ204G.EXE is available from Piobaire in the /pub/msdos/utils directory.

Ken W7EKB

Date: Fri, 16 May 1997 12:26:04 -0700 (PDT)

From: Ken Gordon <keng@uidaho.edu>
Subject: Re: 3579 & 7050

Both are deader than last year's fish here. Was on last night with the GRC-109 all fired up from about 0000Z. Heard W1AW in QSO with another station on 40 just a little higher (?) in frequency, about 7051. W1AW was pretty weak but at least readable on the R-1004. I could tell W1AW was in there on my SB-301 connected to the same antenna as the R-1004, but couldn't quite read him. 80 was useless here. Both bands went totally to heck by 0400.

Oh, well....

I still gotta get a 3579R545 rock for the 109.

73,

Ken W7EKB

Date: Fri, 16 May 1997 14:24:49 -0600
From: dfrancis@iex.net (Dexter Francis)
Subject: CW-40651A tube lineup?

Oops! I should have used the specific designator for the radio in question. It was *part* of the RU-16 set, but also some other RU-X sets as well.

Still a TRF receiver with 3 ea. 78's, 2 ea. 77's and a 38233???

The question is the same, what's that last tube equivalent to,

or what was it (in case I've misread the case markings)

and what are the ranges of the companion coil sets?

(probably a VT-52/45 special...)

- df

* CWest Tube Sales - P.O.B. 22443 SLC, UT 84122 *
* http://www.usa.net/~dfrancis/CWest_Tube_Sales.html *

Date: Fri, 16 May 1997 16:36:40 +0100
From: BOB DUCKWORTH <bob@atl.org>
Subject: Western Electric 102A tube, whatzit?

Looks like a little golf ball with legs.

WE102A.

Couldn't find in my RCA book or on web or usenet archives.

- bob

Date: Fri, 16 May 1997 15:58:28 -0600
From: dfrancis@iex.net (Dexter Francis)
Subject: Correction to 1L6/1R5 pinouts

I neglected to show that the 1R5 pin 5 connection is to the Heater (-) and that this is paralleled with pin 1, (an internal short between pins 1 and 5) as opposed to being paralleled with pin 7.

Check your schematics and remember there's a short between pins 1 and 5 on your 1R5's.

Sorry for the oversight.

- df

| | 1L6 | 1R5 |
|------|-------------------|-----------------------|
| Base | 7DC | 7AT |
| Pin | Function | Function |
| 1 | Heater | Heater (-) and Grid 5 |
| 2 | Plate | Plate |
| 3 | Grid 2 | Grid 2 and Grid 4 |
| 4 | Grid 1 | Grid 1 |
| 5 | Grid 3 and Grid 5 | Heater (-) and Grid 5 |
| 6 | Grid 4 | Grid 3 |
| 7 | Heater | Heater (+) |

* CWest Tube Sales - P.O.B. 22443 SLC, UT 84122 *
* http://www.usa.net/~dfrancis/CWest_Tube_Sales.html *
* e-mail to: tubes@usa.net *

Date: Fri, 16 May 1997 17:55:07 -0400
From: Ben Bradley <bradley@norcross.mcs.slb.com>
Subject: Where are message archives for new list?

Hi, all, I subscribed to this list the other day - I'd been reading the list from the old server from the archives at:
<http://sunsite.unc.edu/pub/academic/agriculture/agronomy/ham/GLOWBUGS/>
which are now located at:
<http://sunsite.unc.edu/pub/academic/agriculture/agronomy/ham/GLOWBUGS/ThePorch/>

Are archives of postings on the new server saved somewhere? I only subscribed here a few days ago, and the list has apparently been on this server for a couple of months.

Now, for the on-topic portion of my post:

It's sure fun reading about things such as glass-plate capacitors, transmitting tubes used as regenerative receiving stages and big coils. By following all these ideas, one would end up with a receiver that looks a whole lot like a transmitter, or even a Tesla coil! And the way these regens work, the thing may actually operate like a transmitter, too...

The idea of using large-gauge (14 or 12) wire for winding receiver coils

is interesting, and one I hadn't thought of. One might argue that one could get a circuit with too high of a 'Q' with such circuits (I'm gonna have to actually build this stuff and find out someday...), but it's easier to add a resistor in series or parallel with a good coil than to rewind a coil originally wound with something like 28 gauge wire.

What made me think of that is an analogy with hifi speaker building - an article talked about taking lots of care to seal up an acoustic suspension cabinet, and then if it was 'too well sealed', drilling a 1/8" hole in the cabinet. The author's argument was that if the hole doesn't improve things, it's much easier to fill in the small hole than to fill in all the cracks of a not-as-well made cabinet.

I've got most (probably all) the parts I need to make a glowbug rig or two, now I've got find the time to go through the design and construction stage. I might even learn the code and get a license to transmit on the HF bands. Till then I'll probably be just lurking here.

Too many hobbies, too little time...

- -----
Ben Bradley, Design Engineer
Schlumberger MCS
snail: 3155-B Northwoods Parkway
Norcross, GA 30071-1576 USA
email: bradley@norcross.mcs.slb.com
voice: 770-368-3444 ext. 3191
fax: 770-840-8614

Date: Fri, 16 May 1997 19:43:18 +0000
From: "Brian Carling (Radio G3XLQ / AF4K)" <bry@mnsinc.com>
Subject: Re: Maximum tube operating voltages explained

On 15 May 97 at 10:28, Roy Morgan spoke about Re: Maximum tube operating voltages and said:

> At 09:19 PM 5/14/97 +0000, you wrote:
>
> .. It produces about 40 American watts (20 British watts)
> >of audio!
>
> AWRITE, BRY! Explain this, please!

OK, well, I know that with AUDIO amplifiers you could generally reckon that if a guitar amplifier or a home hi-fi amp was rated for 20 watts in Britain, it was rated for 40 watts in the USA. I never figured out why. Maybe the British only figured it for one half of the AC duty cycle?

It made us feel that OUR amplifiers put out REAL watts over there. I think it toies in with the misnomer that has been used in both country when the ads referred to "RMS WATTS!"

* Brian Carling in Gaithersburg, Maryland, USA *
* E-mail: bry@mnsinc.com *
* http://www.mnsinc.com/bry/ *

Thought for the day:

The future of international broadcasting will finally
one day lie in the hands of the common man!

Date: Fri, 16 May 1997 19:57:12 +0000
From: "Brian Carling (Radio G3XLQ / AF4K)" <bry@mnsinc.com>
Subject: Re: 3579 & 7050

On 16 May 97 at 12:26, Ken Gordon spoke about Re: 3579 & 7050 and
said:

> Both are deader than last year's fish here.

Not so here!

I have worked a couple of guys on there...

VA3RP, K2RMQ on 5/15/97

* Brian Carling in Gaithersburg, Maryland, USA *
* E-mail: bry@mnsinc.com *
* http://www.mnsinc.com/bry/ *

End of glowbugs V1 #33

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Created by **Steve Modena, AB4EL**
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